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[54] **ALL WHEEL DRIVE CONTINUOUSLY VARIABLE TRANSMISSION HAVING DUAL MODE OPERATION**

[75] Inventors: **Daniel Warren McCarrick**, Canton;
Barry John Melhorn, Ann Arbor;
Rudolf Beim, Bloomfield Hills, all of Mich.

[73] Assignee: **Ford Global Technologies, Inc.**, Dearborn, Mich.

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[51] **Int. Cl.⁶** **F16H 47/08**

[52] **U.S. Cl.** **475/43; 475/207; 475/210**

[58] **Field of Search** **475/207, 210, 475/43**

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Primary Examiner—Rodney H. Bonck

Assistant Examiner—Tisha D. Waddell

Attorney, Agent, or Firm—Frank G. McKenzie

[57] **ABSTRACT**

An automatic transmission for an automotive vehicle includes a continually variable drive mechanism having one sheave assembly supported on an input shaft and the output sheave assembly fixed to an intermediate shaft, a planetary gearset driveably connected to the input shaft and a layshaft gearset, a fixed ratio drive mechanism in the form of a chain drive providing a torque delivery path between the intermediate shaft and the output shaft, a transfer clutch for connecting and releasing the first sheave of the variable drive mechanism and input shaft, a low brake, and first and second reverse clutches for connecting and releasing alternately the input shaft, output shaft and output shaft, and a clutch for selectively driveably connecting the output of the second fixed drive mechanism and a front output shaft.

12 Claims, 2 Drawing Sheets

